

**CHP-31G39G-4040-K** is a complete solid state microwave power amplifier module that features high efficiency, high output power and wide dynamic range. It is based on advanced microwave device technology and provides long-term reliability and high ruggedness.

**Features:**

- 31.0-39.0 GHz ultra-broadband
- Class AB linear GaAs hybrid design
- High efficiency, High reliability and ruggedness
- Good linearity, Low distortion

**Electrical Specifications:**

Frequency:	31.0-39.0 GHz
Power Gain:	40 dB Min
Gain Flatness:	±2.0 dB Max
Power Output:	+40 dBm Min
Harmonics:	-20 dBc Typ
Non Harmonics Spurious:	-60 dBc Typ
Input Power:	+5 dBm Max
Input Return Loss:	10 dB Min
Output Return Loss:	10 dB Min
DC Voltage:	9±0.1 V Typ
DC Supply Current:	20 A Typ

**Environmental Ratings:**

Temperature:	-20°C to +55 °C Operating
	-40 °C to +85 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

**Mechanical Specifications:**


Parameter	Specification
Dimensions WxHxD	6.95 X7.09 X 1.07 Inches
RF Connectors In/Out	2.92mm(K)
DC Connector	7-Pin Hybrid D-Sub
Cooling	External Heatsink

**DC Connector PIN Assignment:**

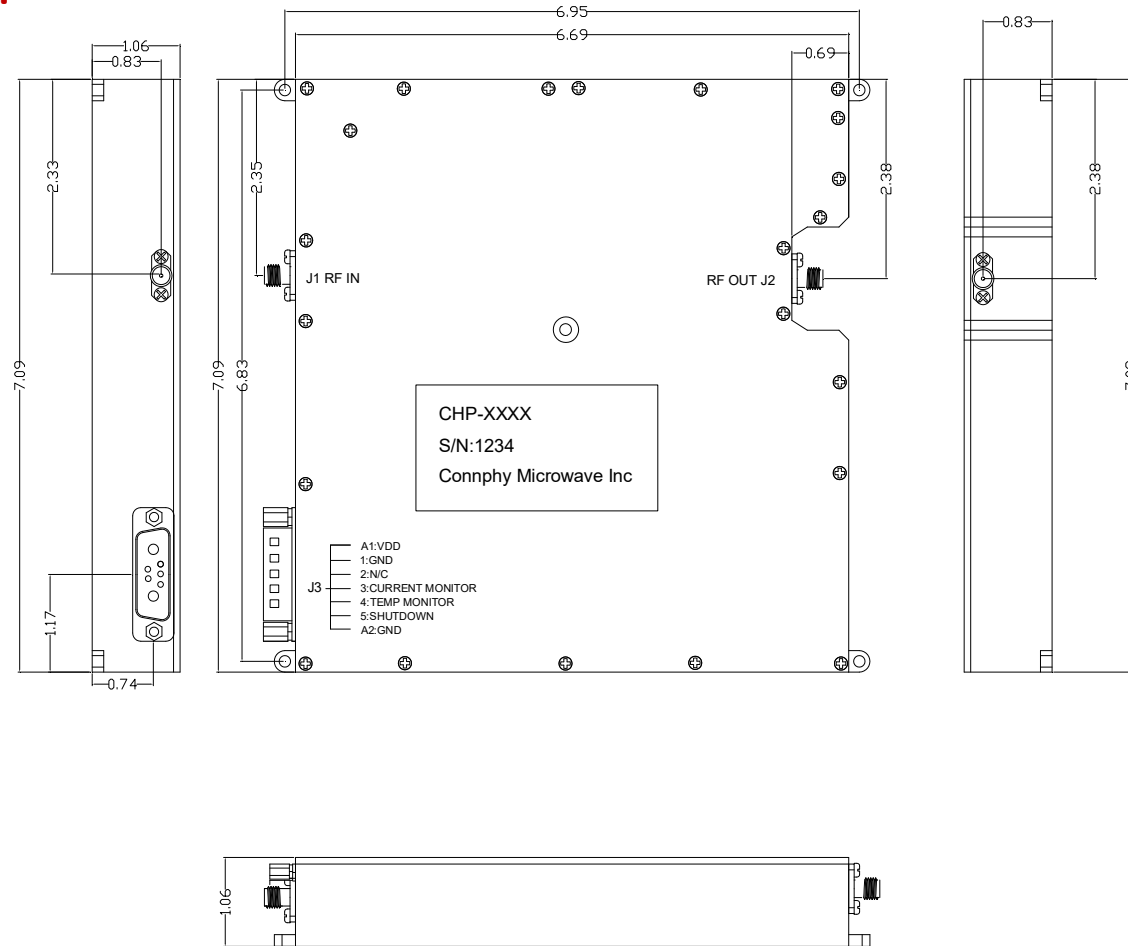
Pin	Description	Specification
1	NC	
2	NC	
3	Current Monitor	20mV/100mA nom
4	Temp Monitor	10mV/C +500mV @ 50C
5	Remote Control	TTL Low=Enable:High=Disable
6,7	+V	+9V DC
8,9	GND	GND

**SOLID STATE HIGH POWER AMPLIFIER**

**CHP-31G39G-4040-K**

DRAWN:	DWG NO.:	REV CODE: Rev.1.0	 <a href="http://www.connphy.com">www.connphy.com</a> <a href="mailto:sales@connphy.com">sales@connphy.com</a>
CHECKRD:	DATE: 14/05/15	SHEET : 1 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## Mechanical Outline (Inches):




## Environmental Ratings:

Temperature:	-20°C to +65 °C Operating -40 °C to +85 °C Non-Operating
Vibration:	MIL-STD-202F, Method 204D Cond. B
Altitude:	MIL-STD-202F, Method 105C Cond. B
Temperature Cycle:	MIL-STD-202F, Method 107D Cond. A

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CHECKRD:	DATE: 14/05/15	SHEET : 2 OF 2	
ISSUED:	SIZE: A	SCALE : N / A	Notes: SPEC ARE SUBJECT TO CHANGE WITHOUT NOTICE.